

To: Yelensky, Erica[Yelensky.Erica@epa.gov]
From: Thompson, Brian
Sent: Wed 9/6/2017 11:30:27 PM
Subject: RE: Santa Monica Bay ocean acidification monitoring

One of the topics in the email chain was on the logistics of operating the devices to make sure you get good data. This was a topic on of the monthly national EPA calls for the OA coordinators I attended, because several NEPs were struggling to having minor issues with operating the devices. If the group below has another meeting/call on the results, it might be informative for you (or you and me) to sit in, if that isn't being too assertive.

From: Yelensky, Erica
Sent: Tuesday, September 5, 2017 12:50 PM
To: Thompson, Brian <Thompson.Brian@epa.gov>
Subject: Santa Monica Bay ocean acidification monitoring

Hi Brian,

I would appreciate your help in deciphering this.

Erica

From: Tom Ford [<mailto:tford@santamonicabay.org>]
Sent: Thursday, August 31, 2017 11:20 AM
To: Yelensky, Erica <Yelensky.Erica@epa.gov>
Subject: FW: Meeting to discuss plans for Santa Monica Bay Mooring

From: Karen McLaughlin [<mailto:karenm@sccwrp.org>]
Sent: Thursday, August 31, 2017 11:08 AM
To: Guang yu Wang <Guangyu.Wang@waterboards.ca.gov>; Terra Petry <terrapetry@lacsdsd.org>; Alex Steele <asteele@lacsdsd.org>
Cc: Bill Power <bpower@lacsdsd.org>; Chase McDonald <cmcdonald@lacsdsd.org>; Phil Markle

<pmarkle@lacsds.org>; Joe Gully <JGully@lacsds.org>; Tom Ford <tford@santamonicabay.org>
Subject: RE: Meeting to discuss plans for Santa Monica Bay Mooring

Hi All,

I'm sending the graphics I showed at the meeting yesterday (in powerpoint) and an excel file which includes the calculated omega_aragonite (aragonite saturation state) for the dataset in the first worksheet and in the second worksheet, I converted the City of LA bottle samples to in situ temperature and pressure (assuming they made their measurements at 25 deg C and 1 atm, I need to confirm). The bottle samples look very similar to the SeapHOx data but the calculated pCO2 is a little off. I will be interested to see what the Sunburst sensors folks say about the post-calibration.

Cheers,
Karen

Karen McLaughlin, Ph.D.
Senior Scientist
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714-755-3242
karenm@sccwrp.org

From: Wang, Guangyu@Waterboards
Sent: Thursday, August 24, 2017 9:28 AM
To: Terra Petry; Karen McLaughlin; Alex Steele
Cc: Bill Power; Chase McDonald; Phil Markle; Joe Gully; Tom Ford
Subject: RE: Meeting to discuss plans for Santa Monica Bay Mooring

Terra,

Thank you very much for hosting. Just let you and everyone know that Tom will attend the meeting as well. I added his email address to this planning group and please continue to include him in future correspondences related to this meeting.

Thank you again and look forward to meeting you all next Wednesday.

Guangyu

From: Petry, Terra [<mailto:terrapetry@lacsds.org>]
Sent: Wednesday, August 23, 2017 7:44 AM
To: 'Karen McLaughlin' <karenm@sccwrp.org>; Wang, Guangyu@Waterboards <Guangyu.Wang@waterboards.ca.gov>; Steele, Alex <ASteele@lacsds.org>
Cc: Power, Bill <BPower@lacsds.org>; McDonald, Chase <cmcdonald@lacsds.org>; Markle, Phil <PMarkle@lacsds.org>; Gully, Joe <JGully@lacsds.org>
Subject: RE: Meeting to discuss plans for Santa Monica Bay Mooring

Hello Everyone,

I have reserved the North Conference Room for our meeting on August 30th at 10am. Below is the address (east side of the street):

JWPCP

24501 S. Figueroa St.

Carson, CA 90745

Guangyu and Karen: here is my cell phone number in case any issues should arise 562-458-3722.

Thank you

-Terra

TERRA C. PETRY | Biologist II | Marine Biology Laboratory | 310.830.2400 x5603

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Converting Waste Into Resources | www.LACSD.org

From: Karen McLaughlin [<mailto:karenm@sccwrp.org>]
Sent: Tuesday, August 22, 2017 8:16 AM
To: Petry, Terra; Guang yu Wang; Steele, Alex
Cc: Power, Bill; McDonald, Chase
Subject: RE: Meeting to discuss plans for Santa Monica Bay Mooring

Thanks Terra!

Let's plan for the meeting at 10am at LACSD's Carson facility on August 30.

Terra, can you send an address?

Cheers,
Karen

Karen McLaughlin, Ph.D.
Senior Scientist
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3535 Harbor Blvd., Suite 110
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714-755-3242
karenm@sccwrp.org

From: Petry, Terra
Sent: Tuesday, August 22, 2017 7:26 AM
To: Guang yu Wang; Karen McLaughlin; Alex Steele
Cc: Bill Power; Chase McDonald
Subject: RE: Meeting to discuss plans for Santa Monica Bay Mooring

Hi Everyone,

We will be more than happy to host the meeting at our Carson facility.

-Terra

From: Wang, Guangyu@Waterboards [Guangyu.Wang@waterboards.ca.gov]
Sent: Monday, August 21, 2017 10:23 PM
To: Petry, Terra; Karen McLaughlin; Steele, Alex
Cc: Power, Bill; McDonald, Chase
Subject: Re: Meeting to discuss plans for Santa Monica Bay Mooring

Hi Karen, thank you for setting up the meeting. I'm out of the town and could not open the doodle poll for some reason. I'm available morning of the 30th though. The only problem is that I have an appointment to take my mom for an outpatient procedure in the early afternoon, and if the meeting is at SCCWRP, I may not be back on time for it.

Guangyu

From: Petry, Terra <terrapetry@lacsdsd.org>
Sent: Monday, August 21, 2017 9:42:04 AM
To: Karen McLaughlin; Wang, Guangyu@Waterboards; Steele, Alex
Cc: Power, Bill; McDonald, Chase
Subject: RE: Meeting to discuss plans for Santa Monica Bay Mooring

The morning of August 30th works for me.

-Terra

From: Karen McLaughlin [karenm@sccwrp.org]
Sent: Monday, August 21, 2017 8:54 AM
To: Petry, Terra; Guang yu Wang; Steele, Alex
Cc: Power, Bill; McDonald, Chase
Subject: RE: Meeting to discuss plans for Santa Monica Bay Mooring

Thanks for the information Terra, I think it would be a great idea to get them on the same calibration schedule. I also want to congratulate your team on the upkeep of the sensors. I've been looking at various mooring data from California coastal waters and its clear that it is not a trivial exercise to get good data consistently from moored sensors, but the Santa Monica Mooring seems to be chugging along really well. Clearly a testament to the care you all have taken with the instruments!

I'm a little booked up this week. Can we do August 30th in the morning?

Thanks,
Karen

Karen McLaughlin, Ph.D.
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From: Petry, Terra<<mailto:terrapetry@lacsds.org>>
Sent: Friday, August 18, 2017 2:50 PM
To: Karen McLaughlin<<mailto:karenm@sccwrp.org>>; Guang yu Wang<<mailto:Guangyu.Wang@waterboards.ca.gov>>; Alex Steele<<mailto:asteele@lacsds.org>>
Cc: Bill Power<<mailto:bpower@lacsds.org>>; Chase McDonald<<mailto:cmcdonald@lacsds.org>>
Subject: RE: Meeting to discuss plans for Santa Monica Bay Mooring

Hello Karen,

A meeting would be great! However, I am going to suggest that it occur prior to the 31st of August. Based on information received today from Sunburst (see inserted email below), I recommend that the sensors be retrieved on September 1st and sent to their respective manufacturers for an annual calibration. I have calculated the reagent bag end of life to be September 14th. In a follow up email to the one inserted below, it was suggested that at least 1 week of reagent remain in the bag so that the high range calibration can be conducted.

Even though the SeapHOx has only been deployed since November 3rd 2016 (SAMI was deployed on July 25th 2016), my thought was to retrieve both sensors at the same time so that they can be calibrated and redeployed at the deeper location concurrently.

I am open to any thoughts you may have on this!

-Terra

From: rsspaulding@gmail.com<<mailto:rsspaulding@gmail.com>>
[<mailto:rsspaulding@gmail.com><<mailto:rsspaulding@gmail.com>>] On Behalf Of Reggie Spaulding
Sent: Friday, August 18, 2017 8:09 AM
To: Petry, Terra
Subject: Re: FW: SAMI pCO2 re-calibration inquiry

Hi Terra,

The SAMI still seems to be in good working condition. Blank signals and battery voltage look good. However, looking at your data, I see that you are routinely measuring pCO2 > 600 uatm. Your instrument was calibrated in the 200-600 uatm range, so some of your data might not be very accurate. I recommend that you return the SAMI while it still has enough reagent to do a post-deployment calibration in the 200-1500 uatm range. When you send in your RMA, be sure to request a post-deployment calibration. If the membrane is in good condition we should be able to do that. Also be sure on your next calibration to specify 200-1500 uatm.

Reggie

Reggie Spaulding, PhD
Research Chemist
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From: Karen McLaughlin [<mailto:karenm@sccwrp.org>]
Sent: Friday, August 18, 2017 2:12 PM
To: Steele, Alex; Petry, Terra; Guang yu Wang
Subject: Meeting to discuss plans for Santa Monica Bay Mooring

Hi all,

We would like to hold a meeting to discuss the plans for the Santa Monica Bay Mooring. I've set up a doodle poll, so please let me know your availability. I'd be happy to come up to you all if that's easier, but you would always be welcome at SCCWRP!

<https://doodle.com/poll/rh3gphwnvzpcs77t>

As for discussion items, Alex has indicated he would like to discuss progress today (I have some analysis Nick Nezlin has conducted that will be relevant to this discussion), and plans for the second year of study. He would also like to discuss practicalities like funds for sensor calibration and guidelines to distribute the data, the schedule for completion of sampling at the 15m depth, factory calibrations, and details of the second year study (location, sampling frequency, mooring details, discrete sampling for comparison, etc).

Thanks,
Karen

Karen McLaughlin, Ph.D.
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